IN THE CLAIMS

1-25 (Canceled).

26. (Currently Amended) An isolated nucleic acid molecule comprising a nucleotide sequence having at least about 90% sequence identity to a nucleotide sequence encoding an HPTK6 polypeptide comprising the amino acid sequence shown in SEQ ID NO:4, or the complement of the nucleotide thereof, wherein said nucleotide sequence having at least about 90% sequence identity has tyrosine kinase activity.

27. (Currently Amended) An ~~The~~ isolated nucleic acid molecule [of Claim 26,] comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO: 8.

28. (Currently Amended) An ~~The~~ isolated nucleic acid molecule comprising the HPTK6 nucleotide sequence shown in SEQ ID NO:7.

29. (Currently Amended) An ~~The~~ isolated nucleic acid molecule comprising the HPTK6 nucleotide sequence shown in SEQ ID NO:3.

30. (Currently Amended) An isolated nucleic acid molecule having tyrosine kinase activity comprising an HPTK6 nucleotide sequence that hybridizes to the complement of a nucleic acid sequence that encodes the amino acid sequence shown in SEQ ID NO:4, wherein the hybridization occurs under stringent hybridization and wash conditions, said hybridization and wash conditions comprising employing a denaturing agent during hybridization and low ionic strength and high temperature for washing.

31. (Currently Amended) An isolated nucleic acid molecule having tyrosine kinase activity comprising an HPTK6 nucleotide sequence that hybridizes to the complement of a nucleic acid sequence that encodes the amino acid sequence shown in SEQ ID NO: 8, wherein the hybridization occurs under stringent hybridization and wash conditions, said hybridization and wash conditions comprising employing a denaturing agent during hybridization and low ionic

strength and high temperature for washing.

32. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 26.

33. (Previously Presented) The vector of Claim 32, wherein said nucleic acid molecule is operably linked to control sequences recognized by a host cell transformed with the vector.

34. (Currently Amended) ~~A~~ An isolated host cell comprising the vector of Claim 33.

35. (Currently Amended) The isolated host cell of Claim 34, wherein said cell is a CHO cell, a yeast cell or E. coli.

36. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 27.

37. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 28.

38. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 29.

39. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 30.

40. (Previously Presented) A vector comprising a nucleic acid molecule of Claim 31.